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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/042,195	01/11/2002		Kouichi Akabori	040679-1417	4872	
22428	7590	10/01/2003		EXAM	EXAMINER	
FOLEY A		DNER	NGUYEN, THU V			
	SUITE 500 3000 K STREET NW			ART UNIT PAPER NU		
WASHING	TON, DC	20007		3661		
				DATE MAILED, 10/01/200	DATE MAIL ED. 10/01/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)						
	10/042,195	AKABORI ET AL.						
Office Action Summary	Examiner	Art Unit						
	Thu Nguyen	3661						
The MAILING DATE of this communication app Period for Reply	pears on the cover st	neet with the correspondence add	dress					
A SHORTENED STATUTORY PERIOD FOR REPL'	Y IS SET TO EXPIR	E 3 MONTH(S) FROM						
 THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply with by statute. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). 	36(a). In no event, however y within the statutory minimu will apply and will expire SIX, cause the application to be	, may a reply be timely filed m of thirty (30) days will be considered timely (6) MONTHS from the mailing date of this co come ABANDONED (35 U.S.C. § 133).	/ //. //mmunication.					
Status	lulu 2002							
1) Responsive to communication(s) filed on 23 .	-	•						
, <u> </u>	is action is non-final							
3) Since this application is in condition for allows closed in accordance with the practice under Disposition of Claims			e merits is					
4)⊠ Claim(s) <u>1-14</u> is/are pending in the application	1.							
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-14</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/o	r election requireme	ent.						
Application Papers								
9)☐ The specification is objected to by the Examine	r.							
10)☐ The drawing(s) filed on is/are: a)☐ accept	oted or b) objected	to by the Examiner.						
Applicant may not request that any objection to the								
11)☐ The proposed drawing correction filed on			er.					
If approved, corrected drawings are required in re		l.						
12) ☐ The oath or declaration is objected to by the Ex	aminer.							
Priority under 35 U.S.C. §§ 119 and 120			•					
13) Acknowledgment is made of a claim for foreign	n priority under 35 U	.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of: —								
1.⊠ Certified copies of the priority document								
2. Certified copies of the priority document								
 3. Copies of the certified copies of the prior application from the International Bu See the attached detailed Office action for a list 	reau (PCT Rule 17.	2(a)).	Stage					
14) Acknowledgment is made of a claim for domesti	c priority under 35 L	J.S.C. § 119(e) (to a provisional	application).					
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domest 								
Attachment(s)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 No	terview Summary (PTO-413) Paper No(stice of Informal Patent Application (PTC her:						

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DETAILED ACTION

The amendment filed on July 23, 2003 has been entered. By this amendment, claims 1-7, 9-14 have been amended to overcome the 112 rejection, all claims 1-14 are now pending in the application.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura et al (U.S Patent No. 6,044,321) in view of Tamatsu et al (U.S Patent No. 6,317,073).

As per claim 1, 13-14, Nakamura teaches a cruise control system including an intervehicle detecting section, a vehicular velocity detection section, a target inter-vehicle setting section, a vehicular traveling speed controlling section (col.17, lines 13-67). Nakamura does not teach a delay providing section. However, Nakamura teaches delaying deceleration, acceleration when the distance is not within collision threshold (col.22, lines 44-67; col.32, lines 37-62), and Tamatsu teaches a delay providing section (col.17, lines 58-67; col.18, lines 1-3). It would have

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been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate the delay providing section of Tamatsu to the cruise control system of Nakamura in order to eliminate the noise from the signal.

As per claim 2-7, 9-10, 12, Nakamura teaches providing the dead time for the velocities of the vehicle (col.32, lines 37-43). Further, according to claim 3, 6-7, 9-10, adjusting the duration of the dead time to suit a particular application requires only routines skill in the art.

As per claim 8, Nakamura teaches determining the velocity of the preceding vehicle (col.20, lines 53-61; col.29, lines 41-47).

As per claim 11, Nakamura teaches determining the inter-vehicle distance (col.16, lines 58-67; col.17, lines 1-67).

Response to Arguments

3. Applicant's arguments filed on July 23, 2003 have been fully considered but they are not persuasive.

In response to applicant's argument on page 13, second to third paragraph, and page 14, second paragraph, Nakamura does teach the inter-vehicle distance detecting section and the vehicular velocity detecting section (col.17, lines 13-22); a target inter-vehicle distance setting

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section (col.14, lines 5-7); a vehicular traveling speed controlling section (col.14, lines 31-40). Nakamura does not teach the delay providing section. However, Tamatsu teaches providing a delay to the detected velocity detected from the sensor (col.18, lines 1-15). Examiner admits that Tamatsu teaches including the delay to the measured speed detected from the speed sensor itself. However, independent claim 1 does not really distinguish the difference between the delay applied to the measured speed from the speed sensor of the present application with the delay in col.18, lines 1-3 of Tamatsu applied to the measured speed of the speed sensor in col.17, lines 54-58. The independent claim 1 only teaches a delay section that provides a delay for the velocity of the host vehicle or the target vehicle. The delay section disclosed in the independent claim 1 reads on the delay section (the filter) that provides delay (col.18, lines 1-3) to the velocity (col.17, lines 54-58) of Tamatsu. The scope of the delay section in claim 1 overlaps the scope of Tamatsu's teaching because the delay taught in claim 1 can be used for correcting the phase shift signal measured from the speed sensor itself as taught by Tamasu.

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any response to this final action should be mailed to:

Box AF

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 305-7687, (for formal communications; please mark "EXPEDITED PROCEDURE")

Or:

(703) 305-7687 (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park V, 2451 Crystal Drive, Arlington. VA., Seventh Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thu Nguyen whose telephone number is (703) 306-9130. The examiner can normally be reached on Monday-Thursday from 8:00 am to 6:00 pm ET.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Cuchlinski, can be reached on (703) 308-3873. The fax phone number for this Group is (703)305-7687.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703)308-1113.

Thu Nguyen

September 22, 2003

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